



EMC TEST REPORT

Report No: TMC181203104-E

File reference No: 2018-5-7

Applicant: Hipcam Ltd.

Product: Doorbell Camera

Brand Name: Hipcam

Model No: HD008, HD009, HD010, HD011, HD012, HD015, HD016,
HD017, HD018, HD019, HD020

Test Standards: ETSI EN 301 489-1 V2.1.1(2017-02)
ETSI EN 301 489-17V3.1.1(2017-02)

Test result: The EMC testing has been performed on the submitted samples and
found in compliance with council EMC Directive
2014/30/EU and RED Directive 2014/53/EU

Approved By



Lemon Rao
EMC Manager

Dated: December 17, 2018

Results appearing herein relate only to the sample tested

**The technical reports is issued errors and omissions exempt and is subject to
withdrawal at**

TMC Testing Services (Shenzhen) Co., Ltd.

1/F., Block A, Xinshidai Gongrong Industrial Park, No. 2, Shihuan Road, Shilong Com
munity, Shiyan Street, Baoan District, Shenzhen, China

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1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The TMC Lab does not assume Responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the TMC Lab.

1.2 Testing Laboratory

TMC Testing Services (Shenzhen) Co., Ltd.

1/F., Block A, Xinshidai Gongrong Industrial Park, No. 2, Shihuan Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen, China

1.3 Details of Applicant

Name: Hipcam Ltd.

Address: 11th.Gush Tzi Tzion St. Giva'at Shmuel Israel

1.4 Test Item

Manufacturer: ShenZhen SiGo Electronics Company Limited

Address: No. 143 Huasheng Road, Dalong street, Longhua District, Shenzhen

Brand Name: Hipcam

Model No.: HD008

Additional Model No.: HD009, HD010, HD011, HD012, HD015, HD016, HD017, HD018, HD019, HD020

Additional Brand Name: N/A

Description: Doorbell Camera

1.5 Additional Information

Frequency: 2412 ~ 2472MHz-WIFI

Number of Channels: 11 Channels

Hardware Version: V1.0

Software Version: V1.0

Antenna Designation : Onboard PCB antenna with gain 0dBi

Type of Modulation: DSSS OFDM for WIFI

Extreme Temp. Tolerance: -20°C to 55°C

1.6 List of Ports

Port	Description	Classification ¹	Maximum cable Length	Cable Type
USB Port				
Line in Port				

Note ¹ports shall be classified as ac power, dc power or signal/control port.

²Maximum cable length corresponding to the appropriate ports shall be classified as $\leq 3\text{m}$ or $> 3\text{m}$.

1.7 Ancillary and Peripheral Devices

Description	Designation	Serial No.	Manufacturer
N/A	-	-	-

List of Peripheral Devices Used for Testing

Description	Designation	Serial No.	Manufacturer

Note: An Equipment (apparatus) used in connection with a receiver or transmitter is considered as an ancillary Equipment (apparatus) if:

- a. The equipment is intended for use in conjunction with a receiver or transmitter to provide additional operational and/or control features to the radio equipment. (e.g. to extend control to another position or location); and
- b. The equipment cannot be used on a stand alone basis to provide user functions independently of a receiver or transmitter; and
- c. The receiver or transmitter to which it is connected, is capable of providing some intended operation such as transmitting and/or receiving without the ancillary equipment (i.e. it is not a sub-unit of the main equipment essential to the main equipment basic functions).

1.8 Test Standards

ETSI EN 301 489-1 V2.1.1(2017-02)
Electromagnetic compatibility and Radio spectrum Matters (ERM);
Electromagnetic Compatibility (EMC) standard for radio equipment and services;
Part 1: Common technical requirements
ETSI EN 301 489-17V3.1.1(2017-02)
Electromagnetic compatibility and Radio spectrum Matters (ERM);
Electromagnetic Compatibility (EMC) standard for radio equipment and services;
Part 17: Specific conditions for 2.4GHz wideband transmission systems and 5GHz high performance RLAN equipment

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

1.9 Test or Witness Test Engineering

Test By: Nina Wu

Printing Name: Nina Wu

2. Summary

2.1. General Remarks

Date of receipt of test sample: December 3, 2018

Testing commenced on: December 3, 2018

Testing concluded on: December 3, 2018 to December 6, 2018

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage: ☐ 230V / 50 Hz ☐ 115V / 60Hz

☐ 12 V DC ☐ 24 V DC

☐ Other (specified in blank below)

☒ 5.0V DC

2.3. Description of the Equipment under Test (EUT)

The device is a Doorbell Camera , support Wi-Fi function,

Name of EUT	Doorbell Camera
Model Number	HD008
Antenna Type	Onboard PCB antenna
WLAN CE Operation frequency	IEEE 802.11b:2412-2472MHz IEEE 802.11g:2412-2472MHz IEEE 802.11n HT20:2412-2472MHz
WLAN CE Modulation Type	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)

2.4. EUT operation mode

The EUT has been tested under typical operating condition. A software used to control the EUT for staying in transmitting and receiving mode for testing.

2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

☐ - supplied by the manufacturer

☒ - supplied by the lab

2.6. Mode of Operation

TMC has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode	
EMI	Mode 1: Working Mode 2: Communication by Wi-Fi
EMS	Mode 1: Working Mode 2: Standby Mode 3: Communication by Wi-Fi

Test modes description:

1. Because the EUT support Wi-Fi function, emissions test will not take account of wireless portions. The emission from EUT stand alone applies with harmonized radio standard. Please check it in reports
2. Wi-Fi communication mode: during the test, the Wi-Fi function was on and transfer files to notebook PC via wireless router.

2.7. Immunity Performance criteria

General Requirements (ETSI EN 301489-1):

The performance criteria are used to take a decision on whether radio equipment passes or fails immunity tests.

For the purpose of the present document four categories of performance criteria apply:

- performance criteria for continuous phenomena applied to transmitters;
- performance criteria for transient phenomena applied to transmitters;
- performance criteria for continuous phenomena applied to receivers;
- performance criteria for transient phenomena applied to receivers.

Normally, the performance criteria depend on the type of radio equipment. Thus, the present document only contains general performance criteria commonly used for the assessment of radio equipment. More specific and product-related performance criteria for a dedicated type of radio equipment may be found in the part of EN 301 489 series [22] dealing with the particular type of radio equipment.

(1) Performance criteria for continuous phenomena applied to transmitters and receivers

If no further details are given in the relevant part of EN 301 489 series [22] dealing with the particular type of radio equipment, the following general performance criteria for continuous phenomena shall apply.

During and after the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed a permissible performance level specified by the manufacturer when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

During the test the EUT shall not unintentionally transmit or change its actual operating state and stored data.

If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may

reasonably expect from the apparatus if used as intended.

(2) Performance criteria for transient phenomena applied to transmitters and receivers

If no further details are given in the relevant part of EN 301 489 series [22] dealing with the particular type of radio equipment, the following general performance criteria for transient phenomena shall apply.

After the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer, when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

During the EMC exposure to an electromagnetic phenomenon, a degradation of performance is, however, allowed. No change of the actual mode of operation (e.g. unintended transmission) or stored data is allowed.

If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

(3) Performance criteria for equipment which does not provide a continuous communication link

For radio equipment which does not provide a continuous communication link, the performance criteria described in clauses (1) and (2) are not appropriate, then the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests. The performance specification shall be included in the product description and documentation. The related specifications set out in clause 5.3 of EN 301 489-1 V1.9.2 (2011-09) have also to be taken into account.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in clauses (1) and (2).

(4) Performance criteria for ancillary equipment tested on a stand alone basis

If ancillary equipment is intended to be tested on a stand alone basis, the performance criteria described in clauses (1) and (2) are not appropriate, then the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests. The performance specification shall be included in the product description and documentation. The related specifications set out in clause 5.3 of EN 301 489-1 V1.9.2 (2011-09) have also to be taken into account.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in clauses (1) and (2).

Special Performance Requirements (ETSI EN 301489-17):

The performance criteria are:

performance criteria A for immunity tests with phenomena of a continuous nature;

performance criteria B for immunity tests with phenomena of a transient nature;
performance criteria C for immunity tests with power interruptions exceeding a certain time.
The equipment shall meet the minimum performance criteria as specified in the following clauses.

Performance criteria for Continuous phenomena applied to Transmitters (CT)

The performance criteria A shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an Acknowledgement (ACK) or Not Acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied to Transmitters (TT)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5000 ms duration, for which performance criteria C shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Continuous phenomena applied to Receivers (CR)

The performance criteria A shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied to Receivers (TR)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5000 ms duration for which performance criteria C shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

EN 301 489 -17 Performance criteria		
Criteria	During Test	After test
A	Shall operate as intended May show degradation of performance (see note 1) Shall be no loss of function Shall be no unintentional transmissions	Shall operate as intended Shall be no degradation of performance (see note 2) Shall be no loss of function Shall be no loss of stored data or user programmable functions
B	May show loss of function (one or more) May show degradation of performance (see note 1) No unintentional transmission	Functions shall be self-recoverable Shall operate as intended after recovering Shall be no degradation of performance (see note 2) Shall be no loss of stored data or user programmable functions
C	May be loss of function (one or more)	Functions shall be recoverable by the operator Shall operate as intended after recovering Shall be no degradation of performance (see note 2)

NOTE 1: Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 2: No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

3 Test environment

3.1. Address of the test laboratory

TMC Testing Services (Shenzhen) Co., Ltd.

5/F, Building E, Guanghao Industrial Park, Yunfeng Road, Longhua District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2009) and CISPR Publication 32

3.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 22-25 ° C

Humidity: 40-54 %

Atmospheric pressure: 950-1050mbar

3.3. Test Description

NO	Basic Standard	Test Type	Result
EMISSION (EN 301 489-1 §7.1)			
1	EN 55032	Radiated emission	PASS
2	EN 55032	Conducted emission, DC ports	N/A
3	EN 55032	Conducted emission, AC ports	N/A
4	EN 55032	Conducted emission, Telecom ports	N/A
5	EN 61000-3-2	Harmonic current emissions	N/A
6	EN 61000-3-2	Voltage fluctuations & flicker	N/A
IMMUNITY (EN 301 489-1 §7.2)			
7	EN 61000-4-2	Electrostatic discharge immunity	PASS
8	EN 61000-4-3	Radiated RF electromagnetic field immunity (80MHz to 2000MHz)	PASS
9	EN 61000-4-4	Electrical fast transient/burst immunity	N/A
10	ISO 7637-1, -2	Transients and surges, DC ports	PASS
11	EN 61000-4-5	Surge immunity, AC ports, Telecom ports	N/A
12	EN 61000-4-6	Immunity to conducted disturbances induced by RF fields	N/A
13	EN 61000-4-11	Voltage dips and short interruptions immunity	N/A

Remark: The measurement uncertainty is not included in the test result.

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the TMC lab. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for TMC laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	$\pm 4.10\text{dB}$	(1)
Radiated Emission	1~12.75GHz	$\pm 4.32\text{dB}$	(1)
Conducted Emission	0.15~30MHz	$\pm 3.22\text{dB}$	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Harmonic Current Emission

The measurement uncertainty is evaluated as $\pm 1.2\%$.

Voltage Fluctuations and Flicker

The measurement uncertainty is evaluated as $\pm 1.5\%$.

Electrostatic Discharge

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025: 1999[2], the requirements for measurement uncertainty in ESD testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant ESD standards. The immunity test signal from the ESD system meet the required specifications in IEC 61000-4-2 through the calibration report with the calibrated uncertainty for the waveform of voltage and timing as being 1.63% and 2.76%.

RF Electromagnetic Field

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025: 1999[2], the requirements for measurement uncertainty in RS testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant RS standards. The immunity test signal from the RS system meet the required specifications in IEC 61000-4-3 through the calibration for the uniform field strength and monitoring for the test level with the uncertainty evaluation report for the electrical filed strength as being 2.72 dB.

Fast Transients-Common Mode

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025: 1999[2], the requirements for measurement uncertainty in EFT/Burst testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant EFT/Burst standards. The immunity test signal from the EFT/Burst system meet the required specifications in IEC 61000-4-4 through the calibration report with the calibrated uncertainty for the waveform of voltage. Frequency and timing as being 1.63% and 2.76%.

Surges

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025: 1999[2], the requirements for measurement uncertainty in Surge testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant Surge standards. The immunity test signal from the Surge system meet the required specifications in IEC 61000-4-5 through the calibration report with the calibrated uncertainty for the waveform of voltage and timing as being 1.63% and 2.76%.

RF Common Mode

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025: 1999[2], the requirements for measurement uncertainty in CS testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant CS standards. The immunity test signal from the CS system meet the required specifications in IEC 61000-4-6 through the calibration for unmodulated signal and monitoring for the level through CDN and EM Clamp/Direct Injection as being 3.72 dB and 2.78 dB.

Voltage Dips and Interruption

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025: 1999[2], the requirements for measurement uncertainty in DIP testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant DIP standards. The immunity test signal from the DIP system meet the required specifications in IEC 61000-4-11 through the calibration report with the calibrated uncertainty for the waveform of voltage and timing as being 1.63% and 2.76%.

Transients and Surges

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025: 1999[2], the requirements for measurement uncertainty in Transients and Surges testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant DIP standards. The immunity test signal from the Transients and Surges system meet the required specifications in ISO 7637-2 through the calibration report with the calibrated uncertainty for the waveform of voltage and timing as being 1.60% and 2.60%.

3.5. Equipments Used during the Test

Conducted Susceptibility (CS) :					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Conducted Disturbances test system	SCHLODER	CDG 6000	N/A	2018/05/20
2	Amplifier	SCHLODER	4N100W-6DB	N/A	2018/05/20
3	Dual Directional Coupler	AR	DC2600	302389	2018/05/13
4	6db Attenuator	EMTEST	ATT6/75	0010230A	2018/05/20
5	EM CLAMP	LÜTHI	EM101	335625	2018/05/20
6	CDN	SCHLODER	CDN M2+M3	A2210225/2013	2018/05/20

Harmonic Current/ Voltage Fluctuation and Flicker					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Purified Power Source	MToni	PHF 5010	N/A	2018/05/20
2	Harmonic And Flicker Analyzer	Voltech	PM6000	N/A	2018/05/20

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	Sunol Sciences Corp.	JB1 Antenna	A061713	2018/05/22
2	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESPI	1164.6407.07	2018/05/22
3	RF TEST PANEL	ROHDE & SCHWARZ	TS / RSP	335015/ 0017	2018/05/19
4	Controller	EM Electronics	Controller EM 1000	N/A	2018/05/19
5	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ESK1	N/A	2018/05/22

Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2018/05/20
2	LISN	ROHDE & SCHWARZ	ENV216	101034	2018/05/19
3	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2018/05/19

RF Field Strength Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	SIGNAL GENERATOR	IFR	2032	203002/100	2018/05/22
2	AMPLIFIER	AR	150W1000	301584	2018/05/20
3	DUAL DIRECTIONAL COUPLER	AR	DC6080	301508	2018/05/20
4	POWER HEAD	AR	PH2000	301193	2018/05/20
5	POWER METER	AR	PM2002	302799	2018/05/20

Electrical Fast Transient/Surge/Dips					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Ultra Compact Simulator	HAEFELY	ECOMPACT4	174887	2018/05/20

Electrostatic Discharge					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	SKYLARK	ESD-2000	0220K10251	2018/05/13

Magnetic Field Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2018/05/20
2	Triple-Loop Antenna	EVERFINE	LLA-2	1008002	2018/05/20
3	EMI Test Software	ROHDE & SCHWARZ	ESKI	N/A	2018/05/20

Disturbance Power					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2018/05/20
2	Absorbing Clamp	EVERFINE	MDS-21	4035	2018/05/22
3	EMI Test Software	ROHDE & SCHWARZ	ESKI	N/A	2018/05/20

Antenna Terminal					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2018/05/20
2	RF TEST PANNEL	EVERFINE	TS / RSP	335015/ 0017	2018/05/20
3	SIGNAL	BARCO	COSMS	50041	2018/05/20
4	EMI Test Software	ROHDE & SCHWARZ	ESKI	N/A	2018/05/20

Power Frequency Magnetic Field Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA COMPACT SIMULATOR	EM TEST	UCS500M6	202304/060	2018/05/20
2	MOTOR DRIVEN VOLTAGE TRANSFORMER	EM TEST	MV2616	302205	2018/05/20
3	CURRENT TRANSFORMER	EM TEST	MC2630	302389	2018/05/20
4	MAGNETIC COIL	EM TEST	MS100	0010230A	2018/05/20

Mark: The Cal. Due is 1 year.

4. Test conditions and result

4.1. Radiated Emission

For test instruments and accessories used see section 3.6.

4.1.1. Description of the test location

Test location: Shielded room No. 2

4.1.2. Limits of disturbance (EN55032 B)

Please refer to ETSI EN 301 489-1 Clause 8.2.3, Table 4 and EN 55032 Clause 6, Table 6, Class B

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB μ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Limits for Above 1GHz			
Frequency (GHz)	Distance (m)	Average (dB μ V/m)	Peak (dB μ V/m)
1 - 3	3	50	70
3 - 6	3	54	74

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

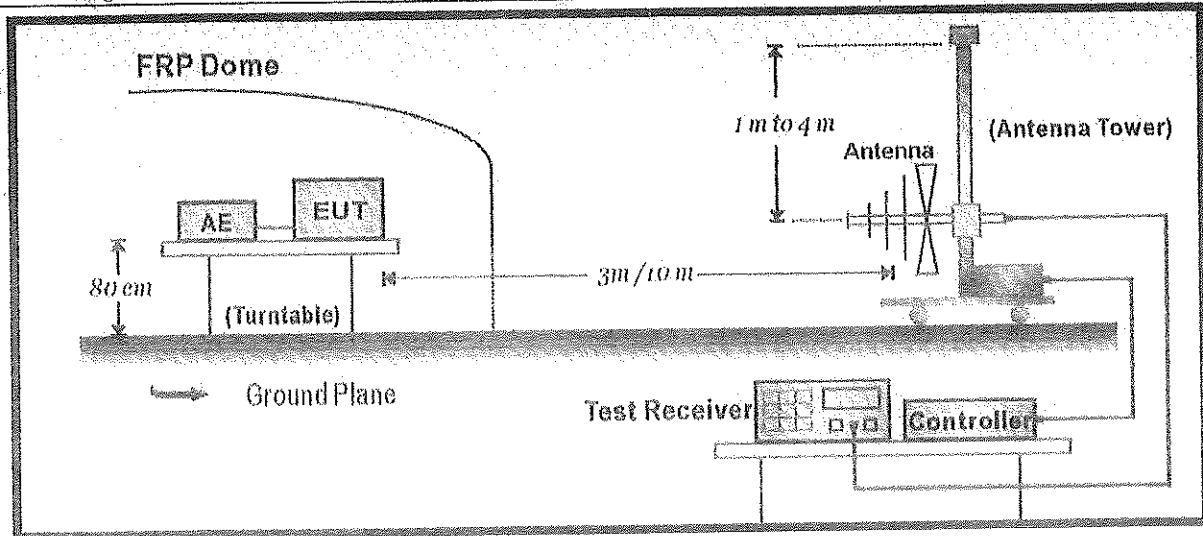
4.1.3. Description of the test set-up

4.1.3.1. Operating Condition

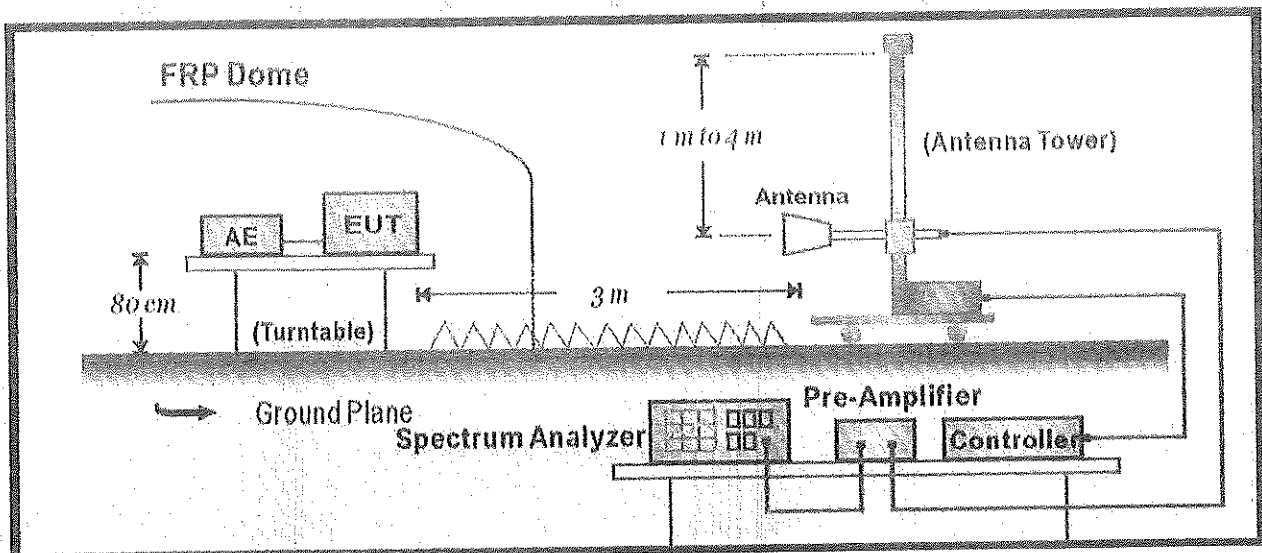
The EUT is set to work shall be carried out with normal communication mode during the test, and the maximum emanating results are recorded.

4.1.3.2. Configuration of test setup

Below 1GHz

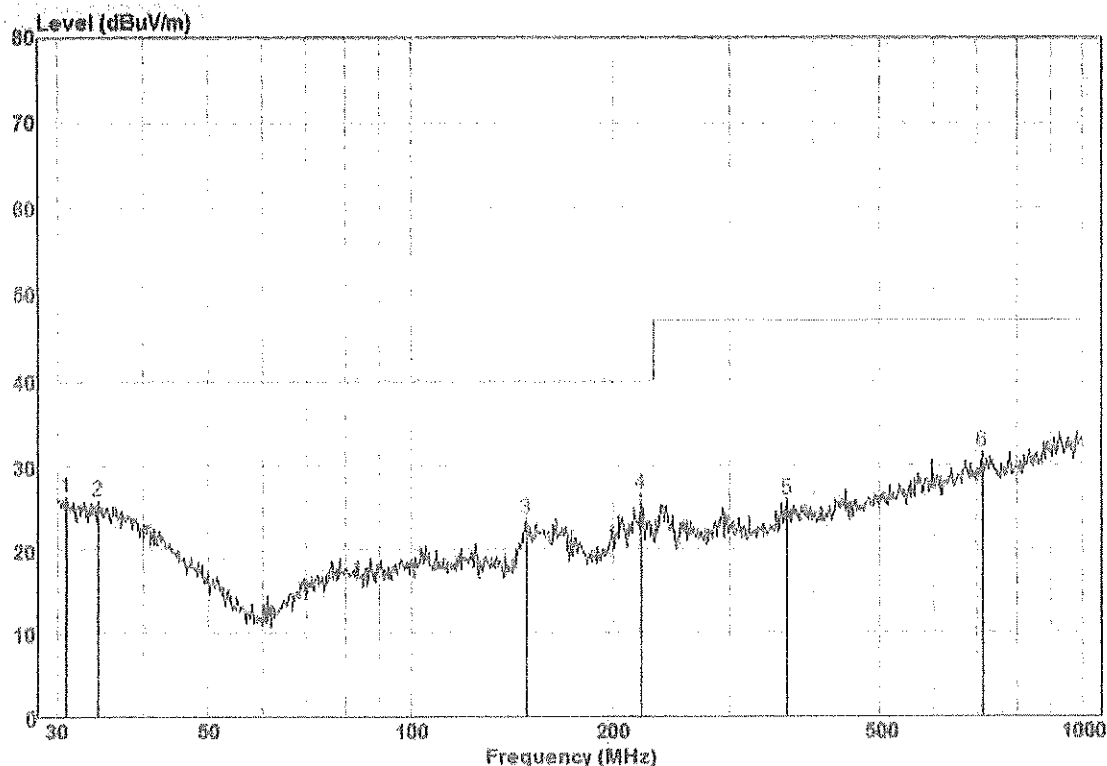


Above 1GHz



4.1.4. Test result

All test modes were verified, and the worst case is mode 1, the test result was shown below:



Condition: EN55032 CLASS B 3m HL562_30M-1GHZ NEW HORIZONTAL

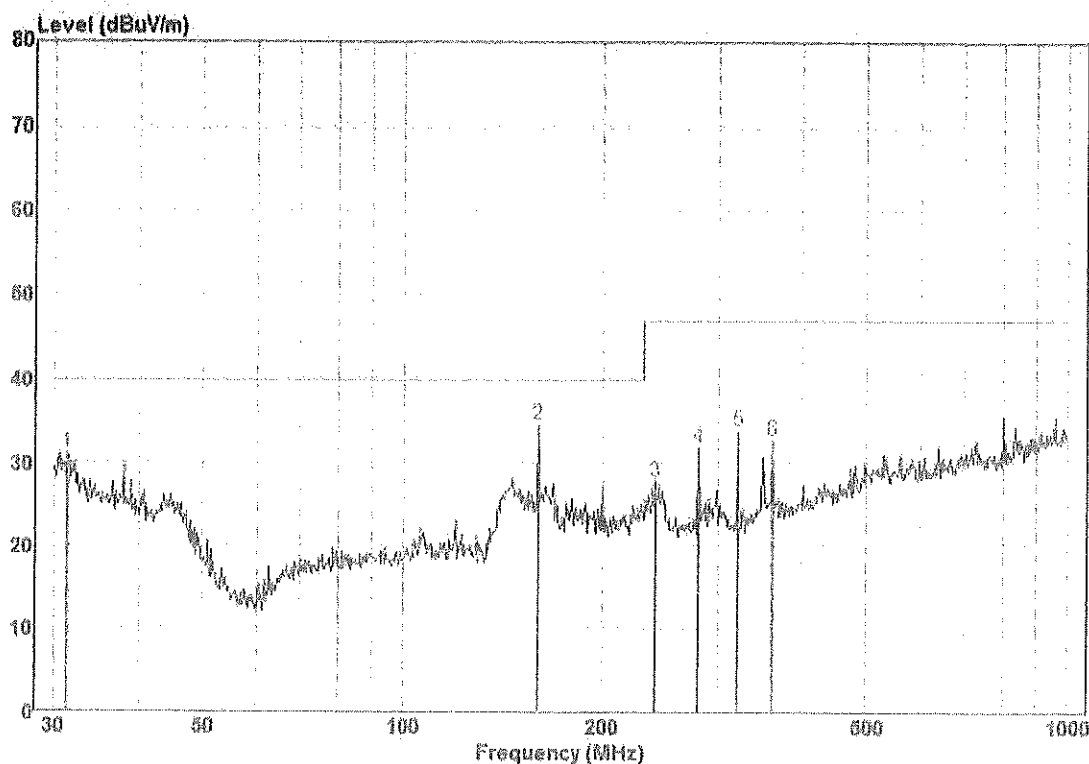
: RBW:120.000KHz

eut : Doorbell Camera

mode : HD008

REMARK :

	Freq	Read		Limit	Over		
	MHz	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	30.85	8.76	17.72	26.48	40.00	-13.52	Peak
2	34.28	8.73	17.28	26.01	40.00	-13.99	Peak
3	148.44	14.12	9.55	23.67	40.00	-16.33	Peak
4 pp	220.62	15.48	11.21	26.69	40.00	-13.31	Peak
5	362.98	10.76	15.21	25.97	47.00	-21.03	Peak
6	711.67	10.71	20.90	31.61	47.00	-15.39	Peak



Condition: EN55032 CLASS B 3m HL562_30M-1GHZ_XVIEW VERTICAL

: RBW:120.000KHz

eut : Doorbell Camera

mode : HD00B

REMARK :

		Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	31.29	13.47	17.68	31.15	40.00	-8.85	Peak	VERTICAL
2 pp	159.78	25.20	9.39	34.59	40.00	-5.41	Peak	VERTICAL
3	239.99	16.13	11.72	27.85	47.00	-19.15	Peak	VERTICAL
4	280.02	19.31	12.59	31.90	47.00	-15.10	Peak	VERTICAL
5	319.94	20.15	13.86	34.01	47.00	-12.99	Peak	VERTICAL
6	360.45	17.51	15.21	32.72	47.00	-14.28	Peak	VERTICAL

Test Mode: TM1(above 1GHz)	Test Distance: 3m
Test voltage: DC 5V	Test Results: Passed
Detector Function: Peak+AV	

Frequency MHz	Emission Level dBμV/m		Limits dBμV/m		Margin dBμV/m		Polarization
	Peak	AV	Peak	AV	Peak	AV	
1241.67	55.56	30.06	70.00	50.00	-14.44	-19.94	H
1914.24	54.24	36.21	70.00	50.00	-15.76	-13.79	H
2110.73	55.75	36.96	70.00	50.00	-14.25	-13.04	H
3239.73	52.83	36.23	74.00	54.00	-21.17	-17.77	H
4374.56	56.16	34.78	74.00	54.00	-17.84	-19.22	H
5770.77	48.36	37.43	74.00	54.00	-25.64	-16.57	H
1242.47	55.35	32.47	70.00	50.00	-14.65	-17.53	V
1914.62	53.26	36.45	70.00	50.00	-16.74	-13.55	V
2110.42	56.27	36.74	70.00	50.00	-13.73	-13.26	V
3239.41	52.88	36.89	74.00	54.00	-21.12	-17.11	V
4375.32	55.46	33.88	74.00	54.00	-18.54	-20.12	V
5771.47	47.63	37.86	74.00	54.00	-26.37	-16.14	V

4.2. Conducted disturbance

According to EMC Basic Standard (EN 55032 [7] Class-B)

1. For the table top EUT the distance to the reference ground plane (wall) should be 40 cm.
2. AC input line plugged into LISN.

4.2.2. Limits of disturbance

Please refer to ETSI EN 301 489-1 Clause 8.4.3, Table 8 and EN 55032 Clause 5, Table 2, Class B

Limit of disturbance voltage at the mains terminals

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

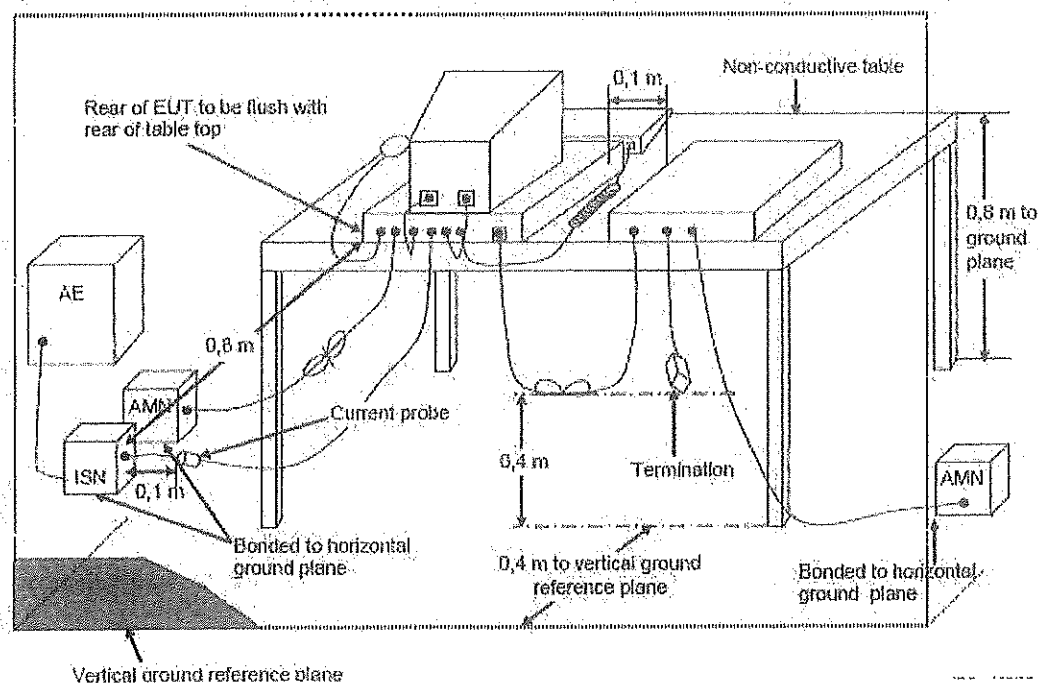
4.2.3. Description of the test set-up

4.2.3.1. Operating Condition

The EUT is set to normal communication mode during the test, and the maximum emanating results are recorded.

4.2.3.2. Configuration of test setup

Mains terminals:



4.2.4. Test result

N/A

4.3. AC Mains Harmonic Current Emission

This test was performed as per EMC Basic Standard EN61000-3-2:2014

EUT Operating Mode: N/A

Results

Port	EUT Operating mode or operating mode no.	Result (Passed / Failed)
AC Input	N/A	N/A

Table 1 - Limit of Harmonics Current Measurement

Limits for Class A equipment

Harmonics order (n)	Max. permissible harmonics current (A)
Odd harmonics	
3	2.3
5	1.14
7	0.77
9	0.40
11	0.33
13	0.21
$15 \leq n \leq 39$	$0.15 \times 15/n$
Even harmonics	
2	1.08
4	0.43
6	0.30
$8 \leq n \leq 40$	$0.23 \times 8/n$

Note:

- For Class A equipment, the harmonics of the input current shall not exceed the absolute values given in table 1.
- For Class B equipment, the harmonics of the input current shall not exceed the values given in table 1 multiplied by factor of 1, 5.

Table 2 - Limit of Harmonics Current Measurement

Limits for Class C equipment	
Harmonics order (n)	Max. permissible harmonics current expressed as a percentage of the input current at the fundamental frequency (A)

Odd harmonics only	
2	2
3	$30 \times \lambda^{-1}$
5	10
7	7
9	5
$11 \leq n \leq 39$	3

Note: The harmonic current limits of lighting equipment shall not exceed the relative limits given in table 2.

Table 3 - Limit of Harmonics Current Measurement

Limits for Class D equipment		
Harmonics order (n)	Maximum permissible harmonic current per watt mA/W	Maximum permissible harmonic current A
Odd harmonics only		
3	3.4	2.30
5	1.9	1.14
7	1.0	0.77
9	0.5	0.40
11	0.35	0.33
$13 \leq n \leq 39$	$3.85/n$	See table 1
$11 \leq n \leq 39$		3

Note: The harmonic of the input current shall not exceed the values that can be derived from table 3.

Test Equipment

Please refer to Section 6 this report.

Test Procedure

- a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn.
- b. The EUT is classified as follows:
Class A Balanced three-phase equipment and all other equipment, except that stated in one of the following classes.
Class B Portable tools.
Class C Lighting equipment, including dimming devices.
Class D Equipment having an input current with “special wave shape” and an active input power, $P \leq 600W$

Note: Due to input power less than 75W, so this test item not applicable.

4.4. AC Mains Voltage Fluctuation and Flicker

This test was performed as per EMC Basic Standard EN 61000-3-3:2013

EUT Operating Mode: ON

Results

Port	EUT Operating mode or operating mode no.
AC Input	ON

Limits of Voltage Fluctuation and Flicks Measurement

Test Item	Limit	Note
P_{st}	1.0	P_{st} means short-term flicker indicator
P_{lt}	0.65	P_{lt} means long-term flicker indicator
T_{dt} (ms)	500	T_{dt} means maximum time that dt exceeds 3%.
d_{max} (%)	4	D_{max} means maximum relative voltage change.
dc (%)	3.3	D_c means relative steady-state voltage change.

Test Equipment

Please refer to Section 6 this report.

Test Procedure

The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal operating conditions.

During the flick measurement, the measure time shall include that part of whole operation cycle in which the EUT 10 minutes and the observation period for long-term flicker indicator is 2 hours.

Test Result

N/A

4.5. Electrostatic discharge

For test instruments and accessories used see section 3.6.

4.5.1. Description of the test location and date

Test location: Shielded room No. 3

Date of test: December 4, 2018

Operator:

4.5.2. Severity levels of electrostatic discharge

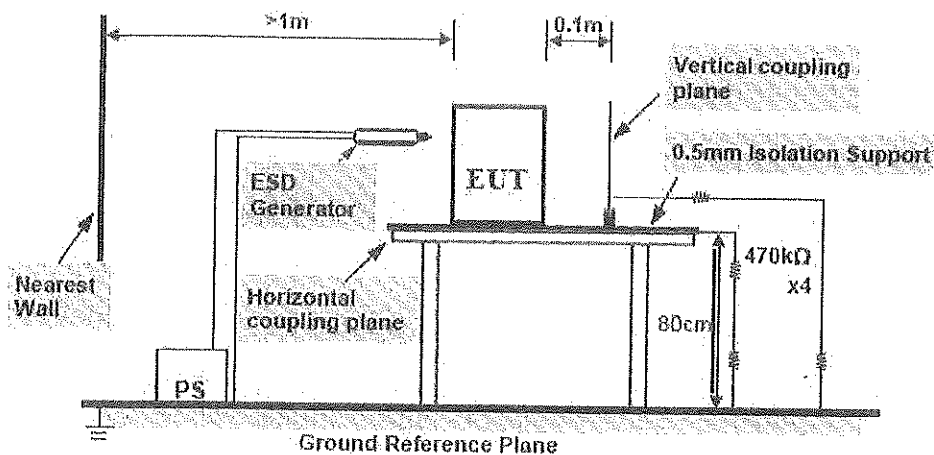
Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1	2	2
2	4	4
3	6	6
4	8	8
X	Special	Special

4.5.3. Description of the test set-up

4.5.3.1. Operating Condition

The EUT is set to work shall be carried out with normal communication mode during the test, and the maximum emanating results are recorded.

4.5.3.2. Configuration of test setup



4.5.4. Test specification:

Test Modes:

Mode 1: Communication by WiFi

Mode 2: Standby

Contact discharge voltage:

☐ 2 kV ☐ 4 kV

Air discharge voltage:

☐ 2 kV ☐ 4 kV ☐ 8 kV

Number of discharges:

☐ ≥ 10 ☐ ≥ 25

Type of discharge:

☐ Direct discharge ☐ Air discharge
 ☐ Contact discharge
 ☐ Contact discharge

Polarity:

☐ Positive ☐ Negative

Discharge location:

☐ see photo documentation of the test set-up
☐ all external locations accessible by hand
☐ horizontal plate (HCP)
☐ vertical coupling plate (VCP)

4.5.5. Test result

The requirements are Fulfilled Performance Criterion: B

4.6. RF Electromagnetic Field

For test instruments and accessories used see section 3.6.

4.6.1. Description of the test location and date

Test location: Shielded room No. 3

Date of test: December 4, 2018

Operator: Mike

4.6.2. Severity levels of radiated, radio-frequency, electromagnetic field

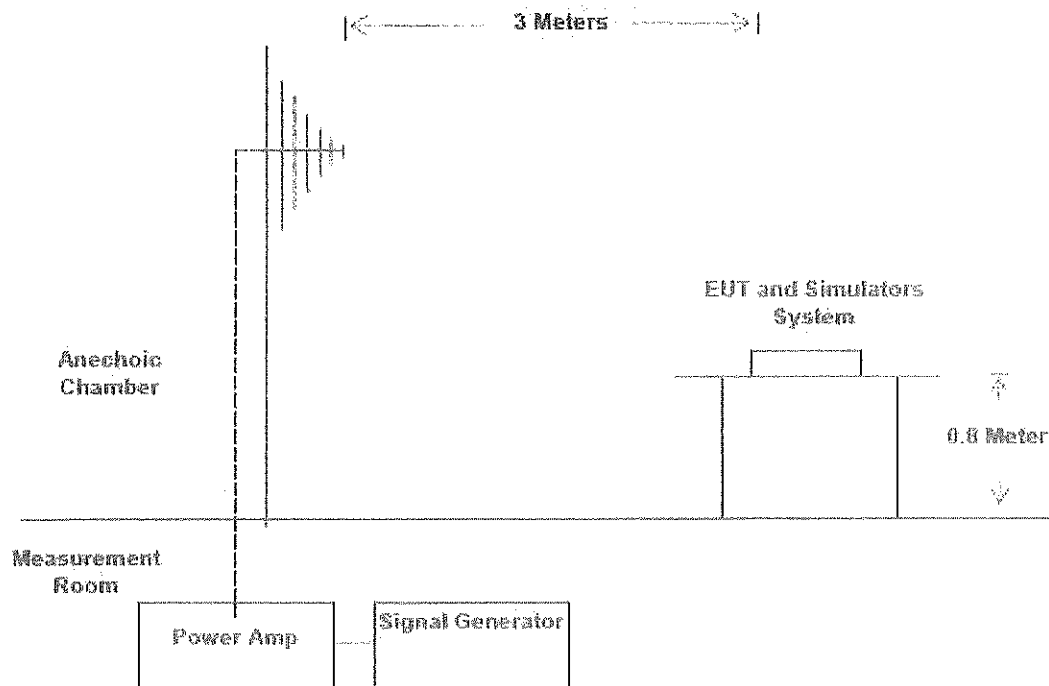
Level	Field Strength (V/m)
1	1
2	3
3	10
X	Special

4.6.3. Description of the test set-up

4.6.3.1. Operating Condition

The EUT is set to work shall be carried out normal communication mode during the test, and the maximum emanating results are recorded

4.6.3.2. Configuration of test setup



4.6.4. Test specification:

Test Modes:

Mode 1: Communication by WiFi

Mode 2: Standby

Frequency range:

▪ 80 MHz to 2700 MHz

Field strength::

▪ 3 V/m

EUT - antenna separation::

▪ 3 m

Modulation:

▪ AM: 80 %

▪ sinusoidal 1000Hz

Frequency step:

▪ 1 % with 3 s dwell time

Antenna polarisation::

▪ horizontal ▪ vertical

4.6.5. Test result

The requirements are Fulfilled

Performance Criterion: A

☒ Description of Preliminary Test (Operating & Standby (Receiving) Modes)

	Freq. Range (MHz)	Field	Modulation	Polarity	Position (°)	Selection for the final test
1	80-1000	3V/m	Yes	H / V	Front	
	1400-2700	3V/m	Yes	H / V	Front	
2	80-1000	3V/m	Yes	H / V	Right	<input checked="" type="checkbox"/>
	1400-2700	3V/m	Yes	H / V	Right	<input checked="" type="checkbox"/>
3	80-1000	3V/m	Yes	H / V	Back	
	1400-2700	3V/m	Yes	H / V	Back	
4	80-1000	3V/m	Yes	H / V	Left	
	1400-2700	3V/m	Yes	H / V	Left	

☒ Result of Final Tests (Operating Mode & Standby(Receiving) Mode)

Freq. Range (MHz)	Field	Modulation	Polarity	Position (°)	Mode	Result (Pass/Fail)
1400-2700	3V/m	Yes	H / V	Right	Normal	PASS
80-1000	3V/m	Yes	H / V	Right	Operating	PASS

PERFORMANCE CRITERIA	
Criteria requested	<input checked="" type="checkbox"/> A/ <input type="checkbox"/> B/ <input type="checkbox"/> C
Criteria meet	<input checked="" type="checkbox"/> A/ <input type="checkbox"/> B/ <input type="checkbox"/> C

Remarks: During the test no deviation was detected to the selected operation mode(s).

4.7. Electrical Fast Transient/Burst Immunity Test

According to EMC basic standard (EN61000-4-4 [11])

EUT Operating Mode: N/A

Type of Port: AC mains power input/ Telecommunication port

Performance Criterion: TT/TR

For the table top EUT the distance to the reference ground plane should be 80 cm.

The test level for ac mains power input ports shall be 1KV open circuit.

Test Setup

Burst on Power Line (direct injection) and RJ45 Port

Test Results

Adjustment on UCS 500 M4: Trigger “AUTO”, Burst length: 15ms					Test Time:	60s for every voltage and polarity		
						120s for every voltage and polarity		
Testing on power Line (direct injection)		Reaction of The Test Object During and after Test						Result
Test Voltage	Repetition Frequency	L1 =>GND (+=>GND)	L2=> GND	L3=> GND	N=> GND	PE=> GND	L1, N, => GND	
-0.5kV	5kHz	n.r.f	N/A	N/A	n.r.f	N/A	n.r.f	Pass
+0.5kV	5kHz	n.r.f	N/A	N/A	n.r.f	N/A	n.r.f	Pass
-1.0kV	5kHz	n.r.f	N/A	N/A	n.r.f	N/A	n.r.f	Pass
+1.0kV	5kHz	n.r.f	N/A	N/A	n.r.f	N/A	n.r.f	Pass

Remarks: n.r.f = no reaction recognized, N/A = not applicable.

Performance Criteria A observed and No any function degraded during the tests.

4.8. Surge Immunity Test

4.8.1. Description of the test location

Test location: Shielded room No. 3

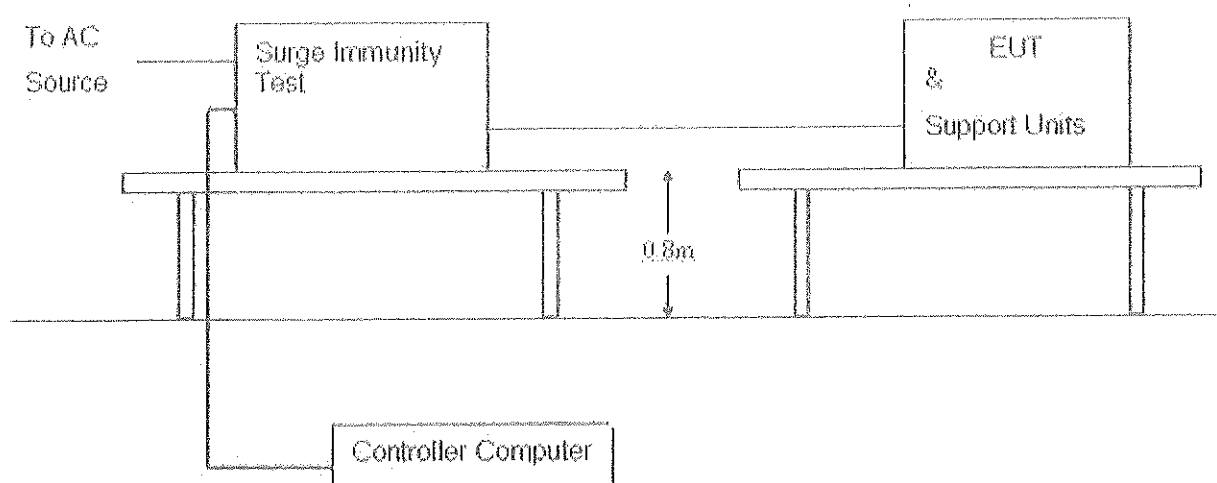
Date of test: December 4, 2018

Operator:

4.8.2. Limit

Please refer to EN 61000-4-5

4.8.3. Test Configuration



4.8.4. Test procedure

Please refer to ETSI EN 301 489-1 Clause 9.4.2 and EN 61000-4-5 for the measurement methods.

Test Modes:

Mode 1: Communication by Wi-Fi

Mode 2: Standby

☒ Results of Final Tests (Operating Mode)

Voltage Waveform: 1.2/50 us

Current Waveform: 8/20 us

Polarity: Positive/Negative

Phase angle: 0°, 90°, 180°, 270°

Coupling Line	Voltage (kV)	Polarity	Coupling Method	Result (Pass / Fail)
<input checked="" type="checkbox"/> Line + Neutral	1	Pos./ Neg.	Capacitive	Pass
<input type="checkbox"/> L + PE	1	Pos./ Neg.	Capacitive	Pass
<input type="checkbox"/> L + N + PE	1	Pos./ Neg.	Capacitive	Pass
<input type="checkbox"/> T, R-Ground	0.5	Pos./ Neg.	Capacitive	Pass
<input checked="" type="checkbox"/> RJ45 port (LAN)	0.5	Pos./ Neg.	Capacitive	Pass
<input type="checkbox"/> RJ11 port (Line cable)	0.5	Pos./ Neg.	Capacitive	Pass

Remarks: During the test no deviation was detected to the selected operation mode(s).

Test result: N/A

4.9. EMC Immunity Test

For test instruments and accessories used see section 3.6.

4.9.1. Description of the test location

Test location: Shielded room No. 2

Date of test: December 4, 2018

Operator:

4.9.2. PERFORMANCE CRITERIA

Criteria	During the test	After the test
A	Shall operate as intended May show degradation of performance (see note 1) Shall be no loss of function Shall be no unintentional transmissions	Shall operate as intended Shall be no degradation of performance (see note 2) Shall be no loss of function Shall be no loss of stored data or user
B	May show loss of function (one or more) May show degradation of performance (see note 1) No unintentional transmissions	Functions shall be self-recoverable Shall operate as intended after recovering Shall be no degradation of performance (see note 2) Shall be no loss of stored data or user programmable functions
C	May be loss of function (one or more)	Functions shall be recoverable by the operator Shall operate as intended after recovering Shall be no degradation of performance (see note 2)

NOTE 1: Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 2: no degradation of performance after the test is understood as any degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended.

In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

PERFORMANCE FOR TT

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply. Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

PERFORMANCE FOR TR

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration for which performance criteria C shall apply. Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

PERFORMANCE FOR CT

The performance criteria A shall apply. Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an Acknowledgement (ACK) or Not Acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

PERFORMANCE FOR CR

The performance criteria A shall apply. Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

4.9.3 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of 2.2 Unless otherwise a special operating condition is specified in the follows during the testing.

4.10 EFT/BURST TESTING

4.10.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-4
Required Performance	B
Test Voltage:	Power Line: 1 kV Signal/Control Line: 0.5 KV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Wave shape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	Not less than 1 min.

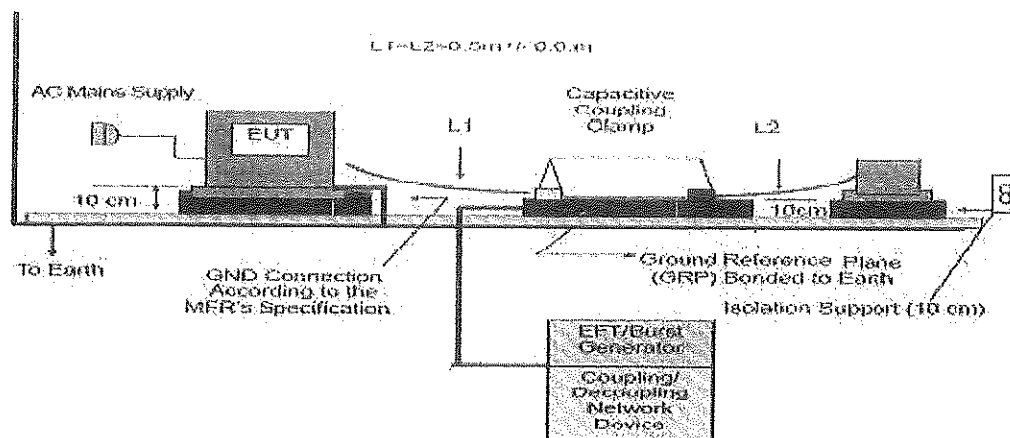
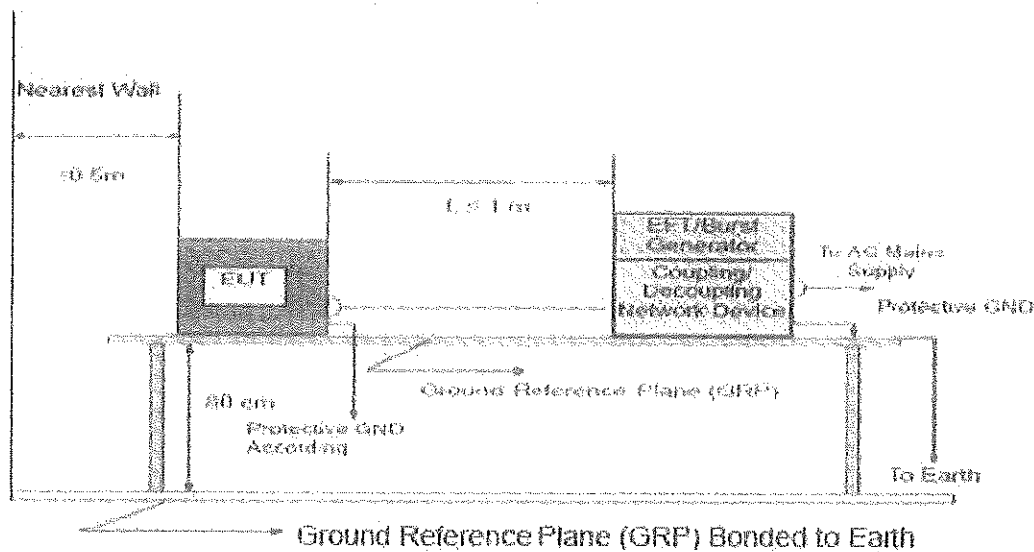
4.10.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

- The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- Both positive and negative polarity discharges were applied.
- The duration time of each test sequential was 1 minute
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.10.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.

4.10.4 TEST RESULTS

Coupling Line		Test level (KV)I								Observation	Criterion	Result
		0.5		1		2		4				
		+	-	+	-	+	-	+	-			
AC Line	L	A	A	A	A					TT,TR	B	N/A
	N	A	A	A	A							N/A
	PE											N/A
	L+N	A	A	A	A							N/A
	L+PE											N/A
	N+PE											N/A
	L+N+PE											N/A
DC Line											N/A	
Signal Line											N/A	

Note:

- 1) P/N denotes the Positive/Negative polarity of the output voltage.
- 2) N/A - denotes test is not applicable in this test report.
- 3) There was not any unintentional transmission in standby mode

4.10. Voltage Dips and Interruptions

For test instruments and accessories used see section 3.6.

4.10.1. Description of the test location

Test location: Shielded room No. 3

Date of test: December 4, 2018

Operator:

4.10.2. Limit

Environmental phenomenon	Test specification	Units	Performance criterion
AC mains power input ports			
Voltage dips	0	% residual	TT, TR
	0.5	cycle	(B)
	0	% residual	TT, TR
	1	cycle	(B)
	70	% residual	TT, TR
	0.5	cycle	(B) (Note 2)
Voltage interruptions	70	% residual	TT, TR
	25	cycle	(B)
Voltage interruptions	0	% residual	TT, TR
	250	cycle	(C)
Note 1: Changes to occur at 0 degree crossover point of the voltage waveform.			
Note 2: As per EN 301489-7, there is special requirement for voltage dip.			

4.10.3. Description of the test set-up

4.10.3.1. Operating Condition

The EUT is set to work shall be carried out normal communication mode during the test, and the maximum emanating results are recorded.

The diagram illustrates the test setup. A large rectangular block represents the test environment. On top of this block, two smaller rectangular blocks are placed side-by-side: 'EUT' (Equipment Under Test) on the left and 'Dips Tester' on the right. A vertical dimension line on the left indicates a height of 0.8 m from the base of the large block to the top of the EUT. A cable connects the 'Dips Tester' to a point labeled 'AC Mains' on the right side of the diagram.

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4.11 INJECTION CURRENT TESTING

4.11.1 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

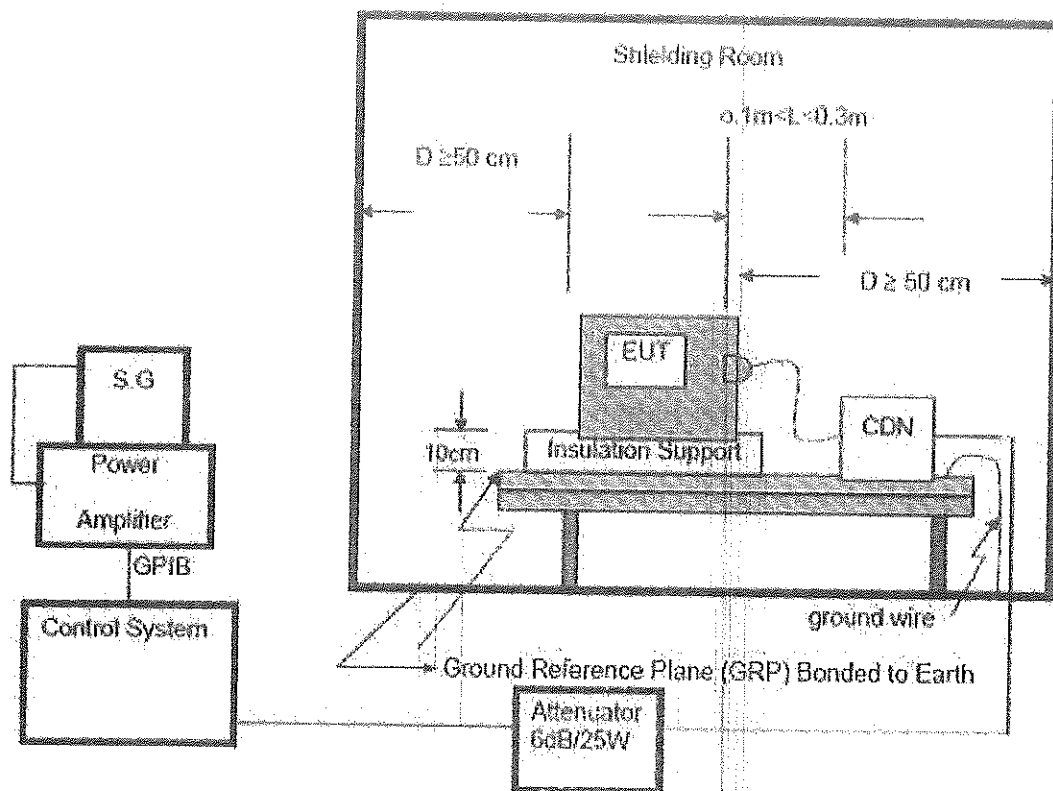
The other condition as following manner:

- The field strength level was 3V.
- The frequency range is swept from 150 KHz to 80 MHz, with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5×10^{-3} decade/s.

Where the frequency range is swept incrementally, the step size was 1% of fundamental.

- The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.11.2 TEST SETUP



For the actual test configuration, please refer to the related Item –EUT Test Photos.

NOTE:
FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

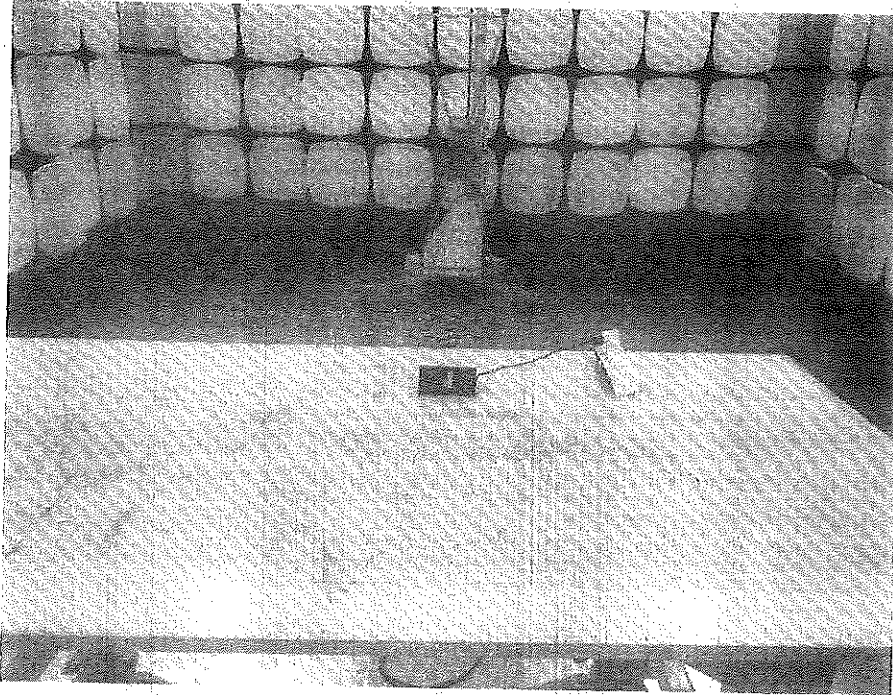
4.11.3 TEST RESULTS

Test Ports (Mode)	Freq. Range (MHz)	Field Strength Azimuth	Observation	Perform. Criteria	Results	Remark
Input/ Output AC. Power Port	0.18-80	3 V/m (rms) AM	CT,CR	A	A	N/A
Input/ Output DC. Power Port	0.18-80	Modulated 1000Hz, 80%	N/A	N/A	N/A	N/A
Signal Line	0.18-80		N/A	N/A	N/A	N/A

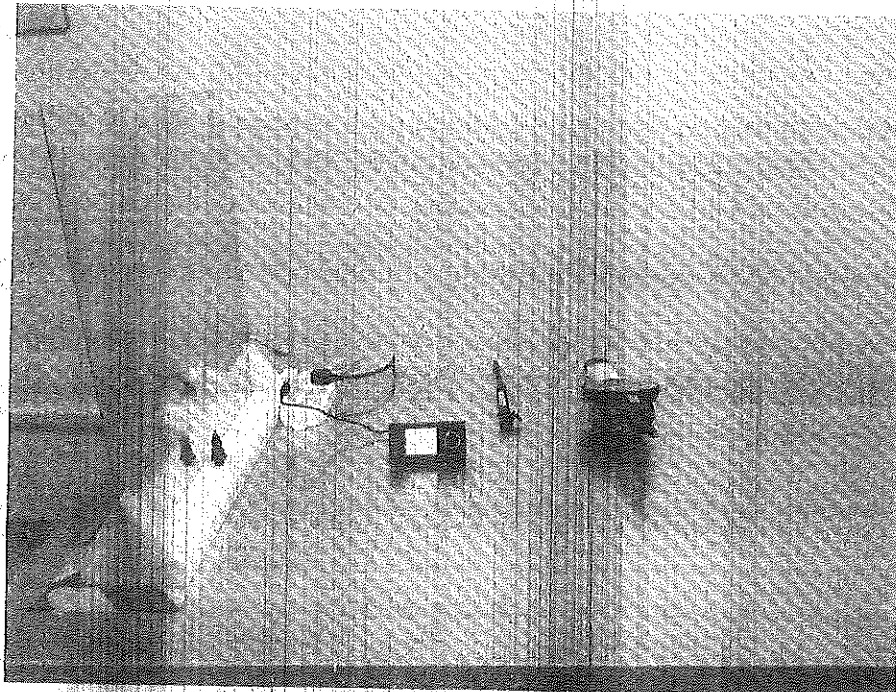
Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

5. Test setup photo

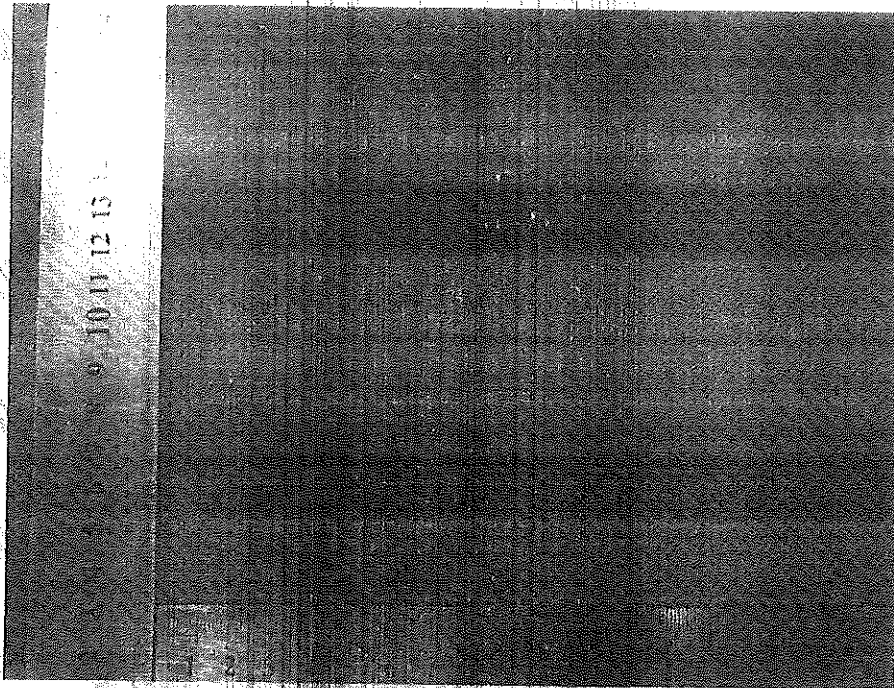
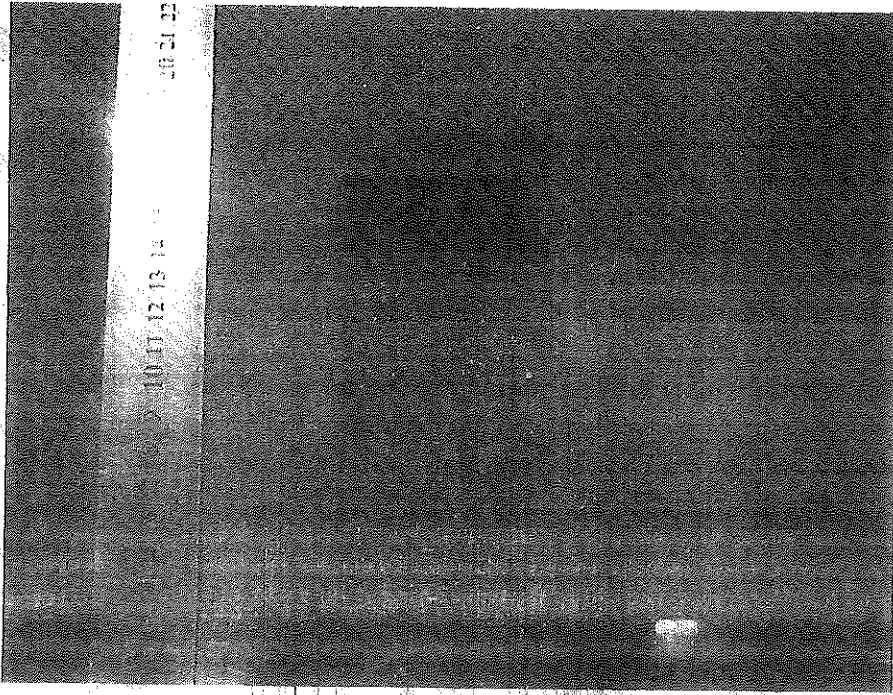
Radiated Emission

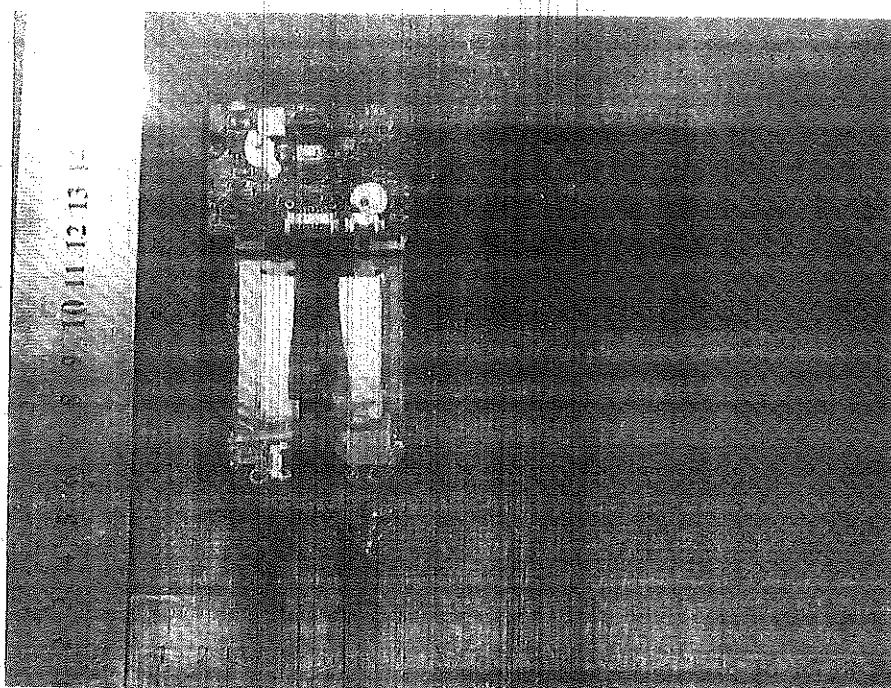
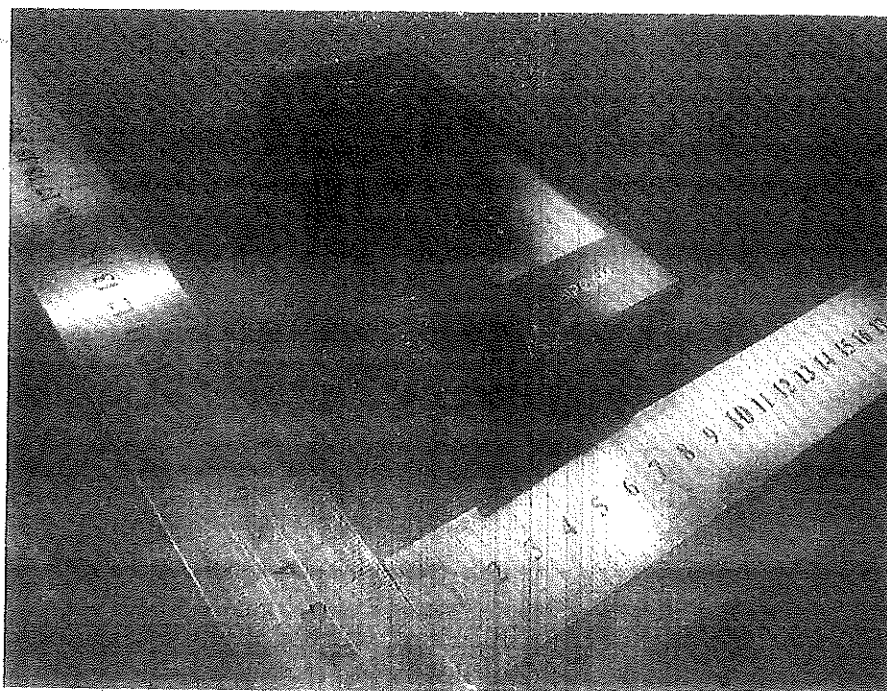


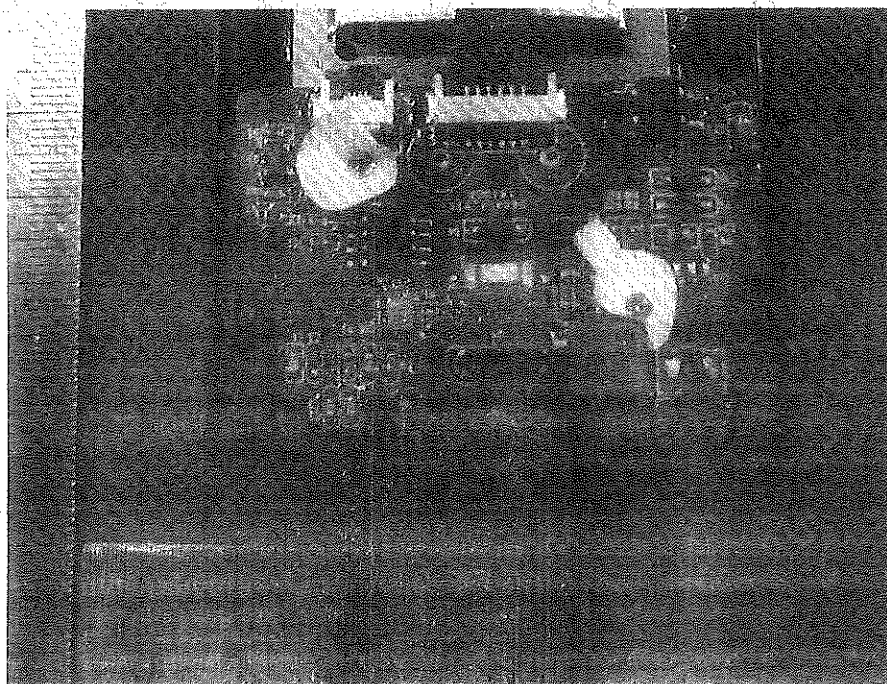
Electrostatic discharge



6. Photo for the EUT







End of the report



Shenzhen SEM.Test Technology Co., Ltd.
1/F, Building A, Hongwei Industrial Park, Lixian 2nd Road,
Bao'an District, Shenzhen, P.R.C. (518101)

CERTIFICATE OF CONFORMITY

Certificate No.: SEM17042720

The following product has been tested by Shenzhen SEM.Test Technology Co., Ltd. with the listing standards and found in conformity with the **EC Directive 2014/30/EU & 2014/35/EU**. It is possible to use CE marking to demonstrate the conformity with this **2014/53/EU RED Directive**.

Report No. : STR17048085E-1, STR17048085E-2, STR17048085E-3
STR17048085S

Applicant : IRINET S.A.
Address : GESTIDO 2435 OF. 102, Montevideo, Uruguay

Manufacturer : Shenzhen SiGo Electronic Co.,LTD
Address : 3/F, Build 8, FuLongTe Industrial Park, HuaXing Road Dalang street, Shenzhen City, China

Description of Product : IP camera
Model No. : HD002, HD003, HD004, HD005, HD006, HD007, HD008,
HD009, HD10, HD20

Trade Name : /

Test Standards : EN 300 328 V2.1.1 (2016-11)
EN 301 489-1 V2.1.1 (2017-02)
EN 301 489-17 V3.1.1 (2017-02)
EN 62479:2010
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

The referred test report(s) show that the product complies with the essential requirements in the above listed standards. The applicant is authorized to use this certificate in connection with the EC declaration of conformity according to Article 10.1 of the Directive.



Test Laboratory

Jandy So
Supervisor

Date of Issue: Apr 13, 2017

This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole production and other relevant Directives have to be observed.

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